## WHAT IS CLAIMED IS:

- 1. A method of inducing weight loss in a patient, comprising administering by continuous infusion an effective amount of an MC4R agonist peptide to a patient in need thereof.
- 2. A method for treating obesity in a patient, comprising administering by continuous infusion an effective amount of an MC4R agonist peptide to a patient in need thereof.
- 3. The method of any one of Claims 1 to 2, wherein the MC4R agonist peptide is administered using a pump.
- 4. The method of any one of Claims 1 to 2, wherein the MC4R agonist peptide is administered using a depot.
- 5. The method of any one of Claims 1 to 4, wherein the MC4R agonist peptide is a peptide of the formula:

and pharmaceutically acceptable salts thereof, wherein

W is Glu, Gln, Asp, Asn, Ala, Gly, Thr, Ser, Pro, Met, Ile, Val, Arg, His, Tyr, Trp, Phe, Lys, Leu, Cya, or is absent;

R<sup>1</sup> is -H, -C(O)CH<sub>3</sub>, -C(O)(CH<sub>2</sub>)<sub>1-4</sub>CH<sub>3</sub>, -C(O)(CH<sub>2</sub>)<sub>1-4</sub>NHC(NH)NH<sub>2</sub>,

Tyr-βArg-, Ac-Tyr-β-hArg-, gluconoyl-Tyr-Arg-, Ac-diaminobutyryl-,

Ac-diaminopropionyl-, N-propionyl-, N-butyryl-, N-valeryl-,

N-methyl-Tyr-Arg-, N-glutaryl-Tyr-Arg-, N-succinyl-Tyr-Arg-,

R<sup>6</sup>-SO<sub>2</sub>NHC(O)CH<sub>2</sub>CH<sub>2</sub>C(O)-, R<sup>6</sup>-SO<sub>2</sub>NHC(O)CH<sub>2</sub>CH<sub>2</sub>C(O)Arg-,

R<sup>6</sup>-SO<sub>2</sub>NHCH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>C(O)-, C<sub>3</sub>-C<sub>7</sub> cycloalkylcarbonyl, phenylsulfonyl,

C<sub>8</sub>-C<sub>14</sub> bicyclic arylsulfonyl, phenyl-(CH<sub>2</sub>)<sub>q</sub>C(O)-, C<sub>8</sub>-C<sub>14</sub> bicyclic aryl-(CH<sub>2</sub>)<sub>q</sub>C(O)-,

HN NH NH NH NH NH NH NH CH<sub>3</sub> Or R2 
$$\star$$
 , wherein

$$\begin{split} R^2 \text{ is -H, -NH}_2, \text{-NHC(O)CH}_3, \text{-NHC(O)(CH}_2)_{1\text{-}4}\text{CH}_3, \\ -\text{NH-TyrC(O)CH}_3, R^6\text{SO}_2\text{NH-, Ac-Cya-NH-, Tyr-NH-,} \\ +\text{HO-(C}_6\text{H}_5)\text{-CH}_2\text{CH}_2\text{C(O)NH-, or CH}_3\text{-(C}_6\text{H}_5)\text{-C(O)CH}_2\text{CH}_2\text{C(O)NH-;} \\ R^3 \text{ is C}_1\text{-C}_4 \text{ straight or branched alkyl, NH}_2\text{-CH}_2\text{-(CH}_2)_q\text{-, HO-CH}_2\text{-,} \\ (\text{CH}_3)_2\text{CHNH(CH}_2)_4\text{-, } R^6\text{(CH}_2)_q\text{-, } R^6\text{SO}_2\text{NH-, Ser, Ile,} \end{split}$$

$$(CH_2)q$$
  $(CH_2)q$   $(CH_$ 

q is 0, 1, 2, or 3;  $R^6$  is a phenyl or  $C_8$ - $C_{14}$  bicyclic aryl; m is 1 or 2; n is 1, 2, 3, or 4;

 $R^9$  is  $(CH_2)_p$  or  $(CH_3)_2C_{-}$ ;

p is 1 or 2;

R<sup>10</sup> is NH- or is absent:

 $R^7$  is a 5- or 6-membered heteroaryl or a 5- or 6-membered heteroaryl ring optionally substituted with  $R^4$ ;

 $R^4$  is H,  $C_1$ - $C_4$  straight or branched alkyl, phenyl, benzyl, or  $(C_6H_5)$ - $CH_2$ -O- $CH_2$ -;

R<sup>8</sup> is phenyl, a phenyl ring optionally substituted with X, or cyclohexyl;

X is H, Cl, F, Br, methyl, or methoxy;

 $R^{11}$  is -C(O) or -CH<sub>2</sub>;

 $R^5$  is -NH<sub>2</sub>, -OH, glycinol, NH<sub>2</sub>-Pro-Ser-, NH<sub>2</sub>-Pro-Lys-, HO-Ser-,

HO-Pro-Ser-, HO-Lys-, -Ser alcohol, -Ser-Pro alcohol, -Lys-Pro alcohol, HOCH<sub>2</sub>CH<sub>2</sub>-O-CH<sub>2</sub>CH<sub>2</sub>NH-, NH<sub>2</sub>-Phe-Arg-, NH<sub>2</sub>-Glu-,

 $NH_2CH_2RCH_2NH$ -, RHN-, or RO- where R is a  $C_1$ - $C_4$  straight or branched alkyl; and

L is -S-S- or -S-CH<sub>2</sub>-S-.

6. The method of any one of Claims 1 to 4, wherein the MC4R agonist peptide is a peptide of the formula:

and pharmaceutically acceptable salts thereof, wherein

W is Glu, Gln, Asp, Asn, Ala, Gly, Thr, Ser, Pro, Met, Ile, Val, Arg, His, Tyr, Trp, Phe, Lys, Leu, Cya, or is absent;

R<sup>1</sup> is -H, -C(O)CH<sub>3</sub>, -C(O)(CH<sub>2</sub>)<sub>1-4</sub>CH<sub>3</sub>, -C(O)(CH<sub>2</sub>)<sub>1-4</sub>NHC(NH)NH<sub>2</sub>, Tyr-βArg-, Ac-Tyr-β-hArg-, gluconoyl-Tyr-Arg-, Ac-diaminobutyryl-, Ac-diaminopropionyl-, N-propionyl-, N-butyryl-, N-valeryl-, N-methyl-Tyr-Arg-, N-glutaryl-Tyr-Arg-, N-succinyl-Tyr-Arg-, R $^6$ -SO<sub>2</sub>NHC(O)CH<sub>2</sub>CH<sub>2</sub>C(O)-, R $^6$ -SO<sub>2</sub>NHC(O)CH<sub>2</sub>CH<sub>2</sub>C(O)Arg-, R $^6$ -SO<sub>2</sub>NHCH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>C(O)-, C<sub>3</sub>-C<sub>7</sub> cycloalkylcarbonyl, phenylsulfonyl, C<sub>8</sub>-C<sub>14</sub> bicyclic arylsulfonyl, phenyl-(CH<sub>2</sub>)<sub>q</sub>C(O)-, C<sub>8</sub>-C<sub>14</sub> bicyclic aryl-(CH<sub>2</sub>)<sub>q</sub>C(O)-,

HN 
$$\frac{NH}{N}$$
  $\frac{NH}{N}$   $\frac{NH}{$ 

R<sup>2</sup> is -H, -NH<sub>2</sub>, -NHC(O)CH<sub>3</sub>, -NHC(O)(CH<sub>2</sub>)<sub>1-4</sub>CH<sub>3</sub>,

-NH-TyrC(O)CH<sub>3</sub>, R<sup>6</sup>SO<sub>2</sub>NH-, Ac-Cya-NH-, Tyr-NH-,

HO-(C<sub>6</sub>H<sub>5</sub>)-CH<sub>2</sub>CH<sub>2</sub>C(O)NH-, or CH<sub>3</sub>-(C<sub>6</sub>H<sub>5</sub>)-C(O)CH<sub>2</sub>CH<sub>2</sub>C(O)NH-;

R<sup>3</sup> is C<sub>1</sub>-C<sub>4</sub> straight or branched alkyl, NH<sub>2</sub>-CH<sub>2</sub>-(CH<sub>2</sub>)<sub>q</sub>-, HO-CH<sub>2</sub>-,

(CH<sub>3</sub>)<sub>2</sub>CHNH(CH<sub>2</sub>)<sub>4</sub>-, R<sup>6</sup>(CH<sub>2</sub>)<sub>q</sub>-, R<sup>6</sup>SO<sub>2</sub>NH-, Ser, Ile,

$$(CH_2)q \qquad (CH_2)q \qquad (CH_2)q$$

$$H_2N \qquad H_2N \qquad H_2N \qquad H_2N$$

q is 0, 1, 2, or 3;  $R^6 \ \text{is a phenyl or $C_{8}$-$C_{14}$ bicyclic aryl;} \\$ 

m is 1 or 2; p is 1 or 2;  $R^4$  is H,  $C_1$ - $C_4$  straight or branched alkyl, phenyl, benzyl, or  $(C_6H_5)$ - $CH_2$ -O- $CH_2$ -;

X is H, Cl, F, Br, methyl, or methoxy; and

 $\mbox{R}^{5}$  is -NH  $_{2}$  -OH, glycinol, NH  $_{2}$  -Pro-Ser-, NH  $_{2}$  -Pro-Lys, HO-Ser-,

HO-Pro-Ser-, HO-Lys-, -Ser alcohol, -Ser-Pro alcohol, -Lys-Pro alcohol, HOCH<sub>2</sub>CH<sub>2</sub>-O-CH<sub>2</sub>CH<sub>2</sub>NH-, NH<sub>2</sub>-Phe-Arg-, NH<sub>2</sub>-Glu-,

 $NH_2CH_2RCH_2NH$ -, RHN-, or RO- where R is a  $C_1$ - $C_4$  straight or branched alkyl.

7. The method of any one of Claims 1 to 4, wherein the MC4R agonist peptide is a peptide of the formula:

and pharmaceutically acceptable salts thereof, wherein

W is a single bond, Glu, Gln, Asp, Asn, Ala, Gly, Thr, Ser, Pro, Met, Ile, Val, Arg, His, Tyr, Trp, or Phe;

R<sub>1</sub> is -H, -C(O)CH<sub>3</sub>, -C(O)(CH<sub>2</sub>)<sub>1-4</sub>NH-C(NH)NH<sub>2</sub>, Tyr-βArg, gluconoyl-Tyr-Arg, Ac-Dab, Ac-Dap, N-succinyl-Tyr-Arg, N-propionyl, N-valeryl, N-glutaryl-Tyr-Arg, N-butyryl,

 $R_2$  is -H, -NH<sub>2</sub>, -NHC(O)CH<sub>3</sub>, -NHC(O)(CH<sub>2</sub>)<sub>1-4</sub>CH<sub>3</sub>, Tyr, or -NH-Tyr-C(O)CH<sub>3</sub>;

R<sub>3</sub> is C<sub>1</sub>-C<sub>4</sub> straight or branched alkyl, Ser, Ile, Arg,

q is 0, 1, 2, or 3;

m is 1 or 2;

p is 1 or 2;

R<sub>4</sub> is -H, -CH<sub>3</sub>, or -(CH<sub>2</sub>)<sub>1-3</sub>(CH<sub>3</sub>);

X is -H, -Cl, -F, -Br, methyl, or methoxy; and

R<sub>5</sub> is -NH<sub>2</sub>, -OH, glycinol, -Ser-Pro-NH<sub>2</sub>, -Lys-Pro-NH<sub>2</sub>, -Ser-OH,

-Ser-Pro-OH, -Lys-Pro-OH, -Arg-Phe-NH<sub>2</sub>, -GluNH<sub>2</sub>, -NHR, or -OR, where R is -CH<sub>3</sub> or -(CH<sub>2</sub>)<sub>1-3</sub>(CH<sub>3</sub>).

8. The method of any one of Claims 1 to 4, wherein the MC4R agonist peptide is cyclo[hCys-His-D-Phe-Arg-Trp-Cys]-NH<sub>2</sub>, Ac-cyclo[hCys-His-D-Phe-Arg-Trp-Cys]-NH<sub>2</sub>, Arg-cyclo[hCys-His-D-Phe-Arg-Trp-Cys]-OH,

Ac-Arg-cyclo[Cys-Glu-His-D-Phe-Arg-Trp-Cys]-NH<sub>2</sub>, or Ac-D-Arg-cyclo[Cys-Glu-His-D-Phe-Arg-Trp-Cys]-NH<sub>2</sub>.

- 9. The method of any one of Claims 1 to 4, wherein the MC4R agonist peptide is Ac-D-Arg-cyclo[Cys-Glu-His-D-Phe-Arg-Trp-Cys]-NH<sub>2</sub>.
- 10. Use of an MC4R agonist peptide for the manufacture of a medicament for the treatment of obesity, wherein the medicament is administered by continuous infusion.
- 11. The use of Claim 10, wherein the medicament is administered using a pump.
- 12. The use of Claim 10, wherein the medicament is administered using a depot.
- 13. The use according to any one of Claims 10 to 12, wherein the MC4R agonist peptide is a peptide of the formula:

and pharmaceutically acceptable salts thereof, wherein

W is Glu, Gln, Asp, Asn, Ala, Gly, Thr, Ser, Pro, Met, Ile, Val, Arg, His, Tyr, Trp, Phe, Lys, Leu, Cya, or is absent;

 $R^1$  is -H, -C(O)CH<sub>3</sub>, -C(O)(CH<sub>2</sub>)<sub>1-4</sub>CH<sub>3</sub>, -C(O)(CH<sub>2</sub>)<sub>1-4</sub>NHC(NH)NH<sub>2</sub>, Tyr-βArg-, Ac-Tyr-β-hArg-, gluconoyl-Tyr-Arg-, Ac-diaminobutyryl-, Ac-diaminopropionyl-, N-propionyl-, N-butyryl-, N-valeryl-, N-methyl-Tyr-Arg-, N-glutaryl-Tyr-Arg-, N-succinyl-Tyr-Arg-,  $R^6$ -SO<sub>2</sub>NHC(O)CH<sub>2</sub>CH<sub>2</sub>C(O)-,  $R^6$ -SO<sub>2</sub>NHC(O)CH<sub>2</sub>CH<sub>2</sub>C(O)Arg-,  $R^6$ -SO<sub>2</sub>NHCH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>C(O)-, C<sub>3</sub>-C<sub>7</sub> cycloalkylcarbonyl, phenylsulfonyl, C<sub>8</sub>-C<sub>14</sub> bicyclic arylsulfonyl, phenyl-(CH<sub>2</sub>)<sub>q</sub>C(O)-, C<sub>8</sub>-C<sub>14</sub> bicyclic aryl-(CH<sub>2</sub>)<sub>q</sub>C(O)-,

HN 
$$\stackrel{\text{NH}}{\longrightarrow}$$
  $\stackrel{\text{NH}}{\longrightarrow}$   $\stackrel{\text{NH}}{\longrightarrow}$ 

$$\begin{split} R^2 \ \text{is -H, -NH}_2, \ \text{-NHC(O)CH}_3, \ \text{-NHC(O)(CH}_2)_{1\text{-}4}\text{CH}_3, \\ -\text{NH-TyrC(O)CH}_3, \ R^6\text{SO}_2\text{NH-, Ac-Cya-NH-, Tyr-NH-,} \\ +\text{HO-(C}_6\text{H}_5)\text{-CH}_2\text{CH}_2\text{C(O)NH-, or CH}_3\text{-(C}_6\text{H}_5)\text{-C(O)CH}_2\text{CH}_2\text{C(O)NH-;} \\ R^3 \ \text{is C}_1\text{-C}_4 \ \text{straight or branched alkyl, NH}_2\text{-CH}_2\text{-(CH}_2)_q\text{-, HO-CH}_2\text{-,} \\ (\text{CH}_3)_2\text{CHNH(CH}_2)_4\text{-, } R^6\text{(CH}_2)_q\text{-, } R^6\text{SO}_2\text{NH-, Ser, Ile,} \end{split}$$

$$(CH_2)q$$
 or  $(CH_2)q$   $($ 

q is 0, 1, 2, or 3;  $R^6$  is a phenyl or  $C_8$ - $C_{14}$  bicyclic aryl; m is 1 or 2; n is 1, 2, 3, or 4;

 $R^9$  is  $(CH_2)_p$  or  $(CH_3)_2C_{-}$ ;

p is 1 or 2;

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R<sup>10</sup> is NH- or is absent;

R<sup>7</sup> is a 5- or 6-membered heteroaryl or a 5- or 6-membered heteroaryl ring optionally substituted with R<sup>4</sup>;

R<sup>4</sup> is H, C<sub>1</sub>-C<sub>4</sub> straight or branched alkyl, phenyl, benzyl, or (C<sub>6</sub>H<sub>5</sub>)-CH<sub>2</sub>-O-CH<sub>2</sub>-;

R<sup>8</sup> is phenyl, a phenyl ring optionally substituted with X, or cyclohexyl;

X is H, Cl, F, Br, methyl, or methoxy;

 $R^{11}$  is -C(O) or -CH<sub>2</sub>;

R<sup>5</sup> is -NH<sub>2</sub>, -OH, glycinol, NH<sub>2</sub>-Pro-Ser-, NH<sub>2</sub>-Pro-Lys-, HO-Ser-,

HO-Pro-Ser-, HO-Lys-, -Ser alcohol, -Ser-Pro alcohol, -Lys-Pro alcohol,

HOCH<sub>2</sub>CH<sub>2</sub>-O-CH<sub>2</sub>CH<sub>2</sub>NH-, NH<sub>2</sub>-Phe-Arg-, NH<sub>2</sub>-Glu-,

NH<sub>2</sub>CH<sub>2</sub>RCH<sub>2</sub>NH-, RHN-, or RO- where R is a C<sub>1</sub>-C<sub>4</sub> straight or branched alkyl; and

L is -S-S- or -S-CH<sub>2</sub>-S-.

14. The use according to any one of Claims 10 to 12, wherein the MC4R agonist peptide is a peptide of the formula:

and pharmaceutically acceptable salts thereof, wherein

W is Glu, Gln, Asp, Asn, Ala, Gly, Thr, Ser, Pro, Met, Ile, Val, Arg, His, Tyr,

Trp, Phe, Lys, Leu, Cya, or is absent;

 $R^1$  is -H, -C(O)CH<sub>3</sub>, -C(O)(CH<sub>2</sub>)<sub>1-4</sub>CH<sub>3</sub>, -C(O)(CH<sub>2</sub>)<sub>1-4</sub>NHC(NH)NH<sub>2</sub>,

 $Tyr-\beta Arg-$ ,  $Ac-Tyr-\beta-hArg-$ , gluconoyl-Tyr-Arg-, Ac-diaminobutyryl-,

Ac-diaminopropionyl-, N-propionyl-, N-butyryl-, N-valeryl-, N-methyl-Tyr-Arg-, N-glutaryl-Tyr-Arg-, N-succinyl-Tyr-Arg-, R<sup>6</sup>-SO<sub>2</sub>NHC(O)CH<sub>2</sub>CH<sub>2</sub>C(O)-, R<sup>6</sup>-SO<sub>2</sub>NHC(O)CH<sub>2</sub>CH<sub>2</sub>C(O)Arg-, R<sup>6</sup>-SO<sub>2</sub>NHCH<sub>2</sub>CH<sub>2</sub>CH<sub>2</sub>C(O)-, C<sub>3</sub>-C<sub>7</sub> cycloalkylcarbonyl, phenylsulfonyl, C<sub>8</sub>-C<sub>14</sub> bicyclic arylsulfonyl, phenyl-(CH<sub>2</sub>)<sub>q</sub>C(O)-, C<sub>8</sub>-C<sub>14</sub> bicyclic aryl-(CH<sub>2</sub>)<sub>q</sub>C(O)-,

HN NH NH NH NH NH NH CH<sub>3</sub> Or R2 
$$\stackrel{\uparrow}{\downarrow}$$
 Wherein

R<sup>2</sup> is -H, -NH<sub>2</sub>, -NHC(O)CH<sub>3</sub>, -NHC(O)(CH<sub>2</sub>)<sub>1-4</sub>CH<sub>3</sub>,

-NH-TyrC(O)CH<sub>3</sub>, R<sup>6</sup>SO<sub>2</sub>NH-, Ac-Cya-NH-, Tyr-NH-,

HO-(C<sub>6</sub>H<sub>5</sub>)-CH<sub>2</sub>CH<sub>2</sub>C(O)NH-, or CH<sub>3</sub>-(C<sub>6</sub>H<sub>5</sub>)-C(O)CH<sub>2</sub>CH<sub>2</sub>C(O)NH-;

R<sup>3</sup> is C<sub>1</sub>-C<sub>4</sub> straight or branched alkyl, NH<sub>2</sub>-CH<sub>2</sub>-(CH<sub>2</sub>)<sub>q</sub>-, HO-CH<sub>2</sub>-,

(CH<sub>3</sub>)<sub>2</sub>CHNH(CH<sub>2</sub>)<sub>4</sub>-, R<sup>6</sup>(CH<sub>2</sub>)<sub>q</sub>-, R<sup>6</sup>SO<sub>2</sub>NH-, Ser, Ile,

or 
$$(CH_2)q$$
  $(CH_2)q$   $($ 

q is 0, 1, 2, or 3;  $R^6 \text{ is a phenyl or } C_8\text{-}C_{14} \text{ bicyclic aryl;}$  m is 1 or 2; p is 1 or 2;

 $R^4$  is H,  $C_1$ - $C_4$  straight or branched alkyl, phenyl, benzyl, or  $(C_6H_5)$ - $CH_2$ -O- $CH_2$ -;

X is H, Cl, F, Br, methyl, or methoxy; and

 $\mbox{R}^{5}$  is -NH  $_{2}$  , -OH, glycinol, NH  $_{2}$  -Pro-Ser-, NH  $_{2}$  -Pro-Lys, HO-Ser-,

HO-Pro-Ser-, HO-Lys-, -Ser alcohol, -Ser-Pro alcohol, -Lys-Pro alcohol, HOCH<sub>2</sub>CH<sub>2</sub>-O-CH<sub>2</sub>CH<sub>2</sub>NH-, NH<sub>2</sub>-Phe-Arg-, NH<sub>2</sub>-Glu-,

NH<sub>2</sub>CH<sub>2</sub>RCH<sub>2</sub>NH-, RHN-, or RO- where R is a C<sub>1</sub>-C<sub>4</sub> straight or branched alkyl.

15. The use according to any one of Claims 10 to 12, wherein the MC4R agonist peptide is a peptide of the formula:

and pharmaceutically acceptable salts thereof, wherein

W is a single bond, Glu, Gln, Asp, Asn, Ala, Gly, Thr, Ser, Pro, Met, Ile, Val, Arg, His, Tyr, Trp, or Phe;

R<sub>1</sub> is -H, -C(O)CH<sub>3</sub>, -C(O)(CH<sub>2</sub>)<sub>1-4</sub>NH-C(NH)NH<sub>2</sub>, Tyr-βArg, gluconoyl-Tyr-Arg, Ac-Dab, Ac-Dap, N-succinyl-Tyr-Arg, N-propionyl, N-valeryl, N-glutaryl-Tyr-Arg, N-butyryl,

R<sub>2</sub> is -H, -NH<sub>2</sub>, -NHC(O)CH<sub>3</sub>, -NHC(O)(CH<sub>2</sub>)<sub>1-4</sub>CH<sub>3</sub>, Tyr, or -NH-Tyr-C(O)CH<sub>3</sub>;

R<sub>3</sub> is C<sub>1</sub>-C<sub>4</sub> straight or branched alkyl, Ser, Ile, Arg,

and 
$$(CH_2)q$$
  $(CH_2)q$   $(CH_2)q$ 

q is 0, 1, 2, or 3;

m is 1 or 2;

p is 1 or 2;

 $R_4$  is -H, -CH<sub>3</sub>, or -(CH<sub>2</sub>)<sub>1-3</sub>(CH<sub>3</sub>);

X is -H, -Cl, -F, -Br, methyl, or methoxy; and

R<sub>5</sub> is -NH<sub>2</sub>, -OH, glycinol, -Ser-Pro-NH<sub>2</sub>, -Lys-Pro-NH<sub>2</sub>, -Ser-OH,

-Ser-Pro-OH, -Lys-Pro-OH, -Arg-Phe-NH<sub>2</sub>, -GluNH<sub>2</sub>, -NHR, or -OR, where R is -CH<sub>3</sub> or -(CH<sub>2</sub>)<sub>1-3</sub>(CH<sub>3</sub>).

16. The use according to any one of Claims 10 to 12, wherein the MC4R agonist peptide is cyclo[hCys-His-D-Phe-Arg-Trp-Cys]-NH<sub>2</sub>,

Ac-cyclo[hCys-His-D-Phe-Arg-Trp-Cys]-NH2,

Arg-cyclo[hCys-His-D-Phe-Arg-Trp-Cys]-OH,

 $\label{lem:conditional} Ac-Arg-cyclo[Cys-Glu-His-d-Phe-Arg-Trp-Cys]-NH_2, or \\ Ac-d-Arg-cyclo[Cys-Glu-His-d-Phe-Arg-Trp-Cys]-NH_2.$ 

17. The use according to any one of Claims 10 to 12, wherein the MC4R agonist peptide is Ac-D-Arg-cyclo[Cys-Glu-His-D-Phe-Arg-Trp-Cys]-NH<sub>2</sub>.